

Name: \_\_\_\_\_

### p1029: Box multiplication of linear binomials (v14)

#### Example

Use the box method to multiply  $(6x + 3)$  and  $(2x + 4)$ .

*	$6x$	$3$	
$2x$	$12x^2$	$6x$	$12x^2 + 6x + 24x + 12$
$4$	$24x$	$12$	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER:  $12x^2 + 30x + 12$

#### Question 1

Use the box method to multiply  $(2x + 9)$  and  $(4x + 5)$ .

*	$2x$	$9$	
$4x$	$8x^2$	$36x$	
$5$	$10x$	$45$	

ANSWER:  $8x^2 + 46x + 45$

### Question 2

Use the box method to multiply  $(4x - 7)$  and  $(-8x - 5)$ .

*	$4x$	$-7$
$-8x$	$-32x^2$	$56x$
$-5$	$-20x$	$35$

ANSWER:  $-32x^2 + 36x + 35$

### Question 3

Use the box method to multiply  $(-4x + 5)$  and  $(-6x - 9)$ .

*	$-4x$	$5$
$-6x$	$24x^2$	$-30x$
$-9$	$36x$	$-45$

ANSWER:  $24x^2 + 6x - 45$